

Related Pending Application
Related Case Serial No: <u>09/904,847</u>
Related Case Filing Date: <u>07-16-01</u>

What is claimed is:

1. An arrayed waveguide grating type optical multiplexer/demultiplexer comprising:

one or more of optical input waveguides arranged side by side;

a first slab waveguide connected to the output ends of said optical input waveguides;

an arrayed waveguide made of a plurality of channel waveguides arranged side by side, the channel waveguides being connected to the output end of said first slab waveguide and the channel waveguides having a different set amount each other;

a second slab waveguide connected to the output end of said arrayed waveguide;

a plurality of optical output waveguides arranged side by side, the optical output waveguides connected to the output end of said second slab waveguide;

separation planes separating at least one of said first slab waveguide and second slab waveguide and crossing a path of light passing through the slab waveguide;

a slide moving member for slaidably moving at least one side of said separated slab waveguides along said separation planes;

a refractive index matching agent arranged on said separation planes; and

a thin film member for covering an area arranged with the

**refractive index matching agent.**